

## 83–614 Preparation for vacuum test

### Data

Permissible leaks per vacuum circuit (without vacuum reservoir)	30 mbar/min (0.03 atu) at 400 mbar (0.4 atu) vacuum
Permissible leaks in check valve	50 mbar in 10 min (0.05 atu) at 300 mbar (0.3 atu) vacuum
Permissible leaks in remaining components	20 mbar/min (0.02 atu) at 300 mbar (0.3 atu) vacuum
Plug-on length of connections	10–12 mm

### Special tools

Tester for vacuum systems	116 589 25 21 00
Distributor	115 805 03 22

### Self-made tool

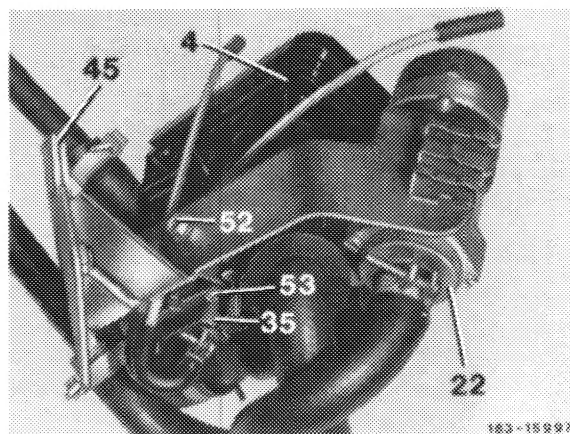
5 blind plugs	welding wire 3 mm dia 40 mm long
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### Note

The vacuum system is subdivided into 7 test circuits, as well as into testing the pushbutton switch, the main switch, the compressor switch and the switch-over valves. If a given trouble prevails (e.g. center jet not opening) the respective circuit can be tested first.

Layout temperature switch in regulating valve

- |                       |                       |
|-----------------------|-----------------------|
| 4 Regulating valve    | 35 Temperature switch |
| 22 Heating water pump |                       |



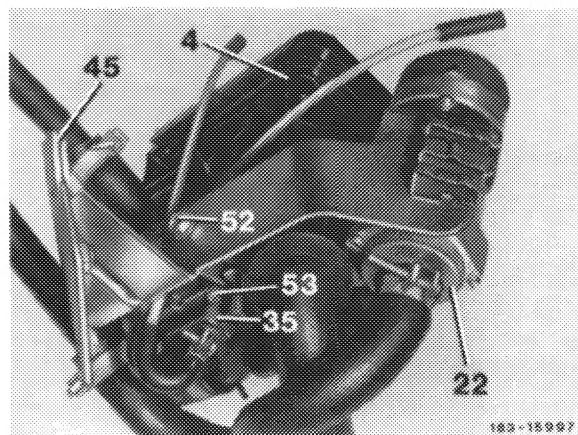
If a leak or functional trouble is suspected in entire vacuum unit, proceed according to 83–615 and perform each time the first test step (total test) of an individual vacuum circuit until the faulty vacuum circuit is found. Then continue testing the respective circuit until the fault is found.

### Preparing for test

- 1 Run engine warm, approx. 60 °C (140 °F). Temperature switch (35) on regulating valve (4) opens. Then shut off engine again.

Layout temperature switch in regulating valve

- |                       |                       |
|-----------------------|-----------------------|
| 4 Regulating valve    | 35 Temperature switch |
| 22 Heating water pump |                       |



- 2 Push "AUTO-LO" button on pushbutton switch (2). "ON/OFF" switch refrigerant compressor (3) in position "ON".

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|---|
| 1 Temperature dial                          |
| 2 Pushbutton switch                         |
| 3 "ON/OFF" switch<br>refrigerant compressor |

